

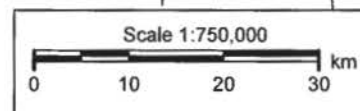
Exhibit 1.0 Map of Commonly Owned Stations

Callsign	Chan	City	St	File Number
NEW-293C1	293C1	Baraga	MI	Proposed
WCUP (FM)	289C1	L'anse	MI	BLH19980129KE
WGLI (FM)	254C1	Hancock	MI	BLH20030220AAS

- FM Station(s) - Currently Owned (Solid Lines)
- AM Station(s) - Currently Owned (Solid Lines)
- FM Station - To Be Modified (Dashed Line)

70 dBμ F(50:50) FM Contours
NED 03 SEC Terrain Database

5 mV/m AM Daytime Contours
Map M3 Ground Conductivity



Marquette



Exhibit 2.0 Map of Stations Entering "Market A"

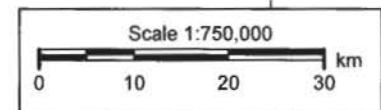
- FM Station(s) Entering "Market A"
- AM Station(s) Entering "Market A"
- "Market A" Defining Contours

70 dBμ F(50:50) FM Contours
NED 03 SEC Terrain Database

5 mV/m AM Daytime Contours
Map M3 Ground Conductivity



Marquette



V-Soft Communications LLC ©

WGGL-FM

WMTU-FM
WKMJ-FM
WOLV(FM)
WHKB(FM)

NEW-283C1(FM)
WGLI(FM)

WUP(FM)

Ontonagon

WVCN(FM)



Exhibit 2.1

Tabulation of Select Stations Entering "Market A"

Stations Entering Market A: (No Less than 9)

Total number of overlapping contours: 9

Reference:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
NEW-293C1	FM	293C1 Baraga	MI	Proposed Operation	0.0	0.0
WGLI (FM)	FM	254C1 Hancock	MI	BLH20030220AAS	0.4	328.4
WCUP (FM)	FM	289C1 L'anse	MI	BLH19980129KE	50.5	164.1

Overlapping Contours:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WGGL-FM	FM	216C1 Houghton	MI	BMLED19961108KA	12.3	233.7
WMTU-FM	FM	220C3 Houghton	MI	BLED20060612AAH	4.8	22.9
WKMJ-FM	FM	228C3 Hancock	MI	BLH19950327KD	0.3	285.4
WOLV (FM)	FM	249C3 Houghton	MI	BLH20020523AAK	3.8	0.6
WHKB (FM)	FM	272C3 Houghton	MI	BLH20020523AAL	3.8	0.6
WVCN (FM)	FM	282C1 Baraga	MI	BMLED20021230AAC	50.5	164.1

Distance and bearing calculations from coordinates: 47-06-03 N, 088-33-55 W

Duopoly Options:

TV: Not Included

FM: 3.16 mV/m (70 dBu); Include NCE

AM: 5.0 mV/m

Stations more than 92 km from the common area were excluded.

Only a minimum number of stations have been shown which insures compliance with the Rules. A complete tabulation of stations entering the market will be supplied upon request. Co-owned stations entering, but not defining the market, have been omitted (in this instance, there are no co-owned station which enter, but do not define the market). In addition, all stations whose transmitter sites reside more than 92 km from the perimeter of the area of mutual overlap of the commonly attributable stations have been omitted.

BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

In the Matter of)	
)	MB Docket No. 14- __
Amendment of Section 73.202(b))	RM- _____
Table of Allotments)	
FM Broadcast Stations)	
(Baraga, Michigan))	

Directed to: Office of the Secretary
Attention: Chief, Audio Division, Media Bureau

PETITION FOR RULEMAKING

Keweenaw Bay Indian Community ("KBIC"), by its attorneys, hereby respectfully submits its Petition for Rule Making to amend the Table of Allotments for FM Broadcast Stations to allot Channel 293C1 to Baraga, Michigan pursuant to the Commission's Section 307(b) Tribal Priority. As discussed in more detail below, the proposed allotment of Channel 293C1 to Baraga pursuant to the Tribal Priority, including the limited waiver requested herein, would serve the public interest.

As set forth in the attached Engineering Statement, the allotment of Channel 293C1 at Baraga can be made in accordance with Commission rules and policies. The proposed allotment site is fully-spaced to all domestic concerns, and city grade service will be provided to the entire proposed community of license. The proposed allotment would not require any change to the channel assignment of any existing licensee or permittee. Concurrently herewith, KBIC is filing an application on FCC Form 301 for a construction permit for the Channel 293C1 allotment at Baraga, and that application is also in accordance with the Commission's rules and policies.¹ If this allotment is made, KBIC will prosecute its application filed concurrently with its petition. In

¹ A copy of that application is attached at Attachment B hereto and has been assigned FCC File No. CDBS-2014 _____.

addition, if KBIC is granted a construction permit for Channel 293C1 at Baraga, it will promptly construct the facilities authorized.

Grant of the instant petition would result in a first local Tribal-owned service for the community of Baraga. Baraga clearly qualifies as a community for allotment purposes, and has previously been recognized as a community by the Commission. The Village of Baraga was incorporated in 1891 and, as of the 2010 United States Census, had a population of 2,053.² Non-commercial FM radio station WVCN(FM) (Facility ID No. 81363) is also licensed to Baraga.³ The proposed Channel 293C1, however, would be the first Tribal-owned service and the sole commercial service at Baraga.

With the limited waiver requested herein, KBIC satisfies the Commission's qualifications for a Tribal Priority, as set forth in the *Third Report and Order* and in Note 5 to Section 73.3573 of the Commission's Rules.⁴ The *Third Report and Order* and Note 5, in relevant part, set forth the following qualifications for the Tribal Priority:

- (a) The applicant is either a federally recognized Tribe or Tribal consortium, or an entity 51 percent or more of which is owned or controlled by a Tribe or Tribes. [and the] Qualifying Tribes or Tribal entities must be those at least a portion of whose Tribal Lands lie within the principal community contour of the proposed facility.

² See http://factfinder2.census.gov/faces/nav/jsf/pages/community_facts.xhtml; Baraga Township, which encompasses the Village of Baraga, had a 2010 population of 3,815.

³ See BOA-20120720ACL, BOA-20120720ACI. WVCN(FM) was originally allotted as a commercial station, but has since converted to non-commercial status. See BMLED-20021230AAC, granted March 12, 2003.

⁴ Policies to Promote Rural Radio Service and to Streamline Allotment and Assignment Procedures, *Third Report and Order*, 26 FCC Rcd 17642 (2011); 47 C.F.R. § 73.3573, Note 5.

- (b)(1) at least 50 percent of the area within the proposed principal community contour is over that Tribe's Tribal Lands, or
- (b)(2) the proposed principal community contour:
 - (i) encompasses 50 percent or more of that Tribe's Tribal Lands,
 - (ii) serves at least 2,000 people living on Tribal Lands, and
 - (iii) the total population on Tribal Lands residing within the proposed service contour constitutes at least 50 percent of the total covered population
- (c) the proposed community of license must be located on Tribal Lands; and
- (d) the proposed service must constitute first or second aural (reception) service, or first local Tribal-owned commercial transmission service at the proposed community of license.

Subject to the limited waiver of qualification (b)(2)(iii) requested herein, the KBIC satisfies these requirements and qualifies for the Tribal Priority. The KBIC is a federally recognized Tribe.⁵ The proposed community of license of Baraga is located within the borders of the L'Anse Indian Reservation, the Tribal Lands of the KBIC. As noted above, the proposed service would be the first Tribal-owned service at Baraga. While WVCN(FM) is licensed to Baraga, that station is not owned by a qualifying Tribe or Tribal Entity.

The KBIC hereby requests waiver of Section (b)(2)(iii) or (b)(1) of the Commission's "threshold qualifications" to allow it to qualify for the Tribal Priority. The proposed allotment at Baraga satisfies Sections (b)(2)(i) and (b)(2)(ii) of those qualifications. As shown in the "Section 307(b) Tribal Reservation Showing" included with the attached Engineering Statement, the proposed 70 dBu contour would cover almost 80% of the KBIC's Tribal Lands, including

⁵ See Indian Entities Recognized and Eligible To Receive Services From the United States Bureau of Indian Affairs, 75 FR 60810, 60811 (Oct. 1, 2010).

almost 3,600 people living on those lands. The proposed 70 dBu contour will not cover the Tribal Lands of any Tribe other than the KBIC. As also demonstrated in the Engineering Statement, however, the total population of Tribal Lands within the proposed station's service area does not constitute 50 percent of the proposed station's total service area population. The Tribal Lands also do not constitute 50 percent of the total area within the proposed principal community contour. For the reasons set forth below, waiver of this requirement to allow allotment of Channel 293C1 pursuant to the Tribal Priority would serve the public interest.

The Commission will grant waiver requests upon a showing of good cause.⁶ To support a waiver request, the Applicant must demonstrate that "the particular facts make strict compliance inconsistent with the public interest if applied to petitioner and when the relief requested would not undermine the policy objective of the rule in question."⁷ Moreover, the Commission's staff must give all waiver requests the requisite "hard look."⁸

In establishing the Tribal Priority, the Commission desired to "enhance the ability of...Tribes...not only to receive radio service tailored to their specific needs and cultures, but to increase ownership of such radio stations by Tribes."⁹ In recognition of the "sovereign rights of Tribes" and the unique relationship between the United States government and those Tribes, the "threshold qualifications" were designed to accommodate the needs of Tribes, as well as the

⁶ 47 C.F.R. §1.3 (2011).

⁷ See *WAIT Radio v. FCC*, 418 F.2d 1153, 1157 (D.C. Cir. 1969); *aff'd*, 459 F.2d 1203 (1972) *cert. denied*, 409 U.S. 1027 (1972) (citing *Rio Grande Family Radio Fellowship, Inc. v. FCC*, 406 F.2d 664 (D.C. Cir. 1968)); See also *Birach Broadcasting Corporation*, 18 FCC Rcd 1414 (2003); *Family Stations, Inc. v. DirecTV, Inc.*, 17 FCC Rcd 25,333 ¶ 7 (2002).

⁸ See *WAIT Radio*, *supra* nt. 6.

⁹ *Third Report and Order*, 26 FCC Rcd at 17642.

Commission's long-standing policies of facilitating and expediting new radio service.¹⁰ Grant of the requested waiver would accomplish these goals.

Grant of the requested limited waiver would allow the KBIC to expeditiously deliver a radio service tailored to the needs and interests of KBIC members living on and around the KBIC's Tribal Lands. In addition to routine coverage of news stories and other issues arising in Baraga and on the L'Anse reservation, KBIC intends to include the program *Native News* in the station's daily programming. This program is not otherwise available to listeners in and around Baraga. KBIC will also broadcast two hours of indigenous music every Saturday evening on the station. This program service will be received not only by Tribe members living on the Tribal Lands, but also by those living in surrounding areas. The proposed service area will also allow listeners to receive the proposed station's programming while commuting and traveling in the rural areas surrounding the Tribal Lands.

Grant of the requested waiver will allow the KBIC to enhance the services it currently provides to residents throughout the service area but outside of the Tribal Lands. The entire area served by the station will be within the lands originally ceded to the United States by the Chippewa Indians of Lake Superior. The KBIC already provides services to numerous Tribal members and non-members living in these areas. KBIC's Natural Resources Department administers natural resource programs throughout the area, including Lake Superior fisheries assessments, Baraga county stream assessments, water monitoring, wildlife and wetland management, and environmental assessments.¹¹ Through its Donald A. LaPointe Health and Education Center, the KBIC's Department of Health and Human Services provides medical

¹⁰ *Id.* at 17643.

¹¹ See <http://nrd.kbic-nsn.gov/>.

services to residents of the service area.¹² The KBIC also operates the Keweenaw Bay Ojibwa Community College, providing educational services to Tribal members and non-members throughout the area.¹³

The proposed service area will also allow the station to provide critical information, including emergency alerts to residents of the area around the unincorporated community of Zeba, which is within the borders of the L'Anse Tribal Lands. Residents of this area are currently unable to receive wireless telephone service from any provider. As a result, it is critically important for these individuals to be able to receive over-the-air radio service that can deliver local news and information, including critical and time-sensitive information in the event of a disaster or other emergency.

While the proposed station's service area would encompass an area large enough to necessitate waiver of either section (b)(1) or (b)(2)(iii) of the "threshold qualifications," the proposed service area also would allow the KBIC to initiate service as quickly and effectively as possible. The proposed facilities would allow KBIC to install the station's antenna on a tower replacing a tower that KBIC already owns, thus avoiding certain costs and other issues raised by leasing or construction of a tower at a new site. This existing tower site is located northwest of Baraga and, as a result, to allow the proposed service area to encompass Baraga, and as much of the Tribal Lands as possible, that service area must necessarily encompass significant areas outside of the Tribal Lands. Indeed, due to the size of the Tribal Lands, any proposed Class C1 allotment, regardless of its location, would result in a service area more than 50% of which was outside the Tribal Lands. Nor can KBIC's proposal be seen as an attempt to take advantage of the Tribal Priority to obtain a station that will serve a major urbanized area under the pretense of

¹² See <http://www.kbic-nsn.gov/content/health-and-human-services>.

¹³ See <http://kbocc.org/index/home/>.

serving Tribal Lands. Indeed, there are no urbanized areas in or even near the proposed service area of the station, which is on the sparsely populated Upper Peninsula of Michigan.

WHEREFORE, the premises considered, KBIC respectfully requests that the Commission grant its petition and allot Channel 293C1 to Baraga, Michigan pursuant to the Commission's Section 307(b) Tribal Priority.

Respectfully submitted:

KEWEENAW BAY INDIAN COMMUNITY

By: _____
Harry C. Martin
Daniel A. Kirkpatrick

Its Attorneys

FLETCHER, HEALD & HILDRETH, PLC
1300 North 17th Street, 11th Floor
Arlington, VA 22209
(703) 812-0400

May 6, 2014

ATTACHMENT A
ENGINEERING STATEMENT

ENGINEERING STATEMENT

for

NEW-293C1 – Baraga, MI CH293C1 (106.5 MHz)

Rulemaking (Form 301-FM) for a New FM Station for the
Community of Baraga, MI & Section 307(b) Tribal Priority
Reservation Preference for

The Keweenaw Bay Indian Community
as authorized under the

Policies to Promote Rural Radio Service and to
Streamline Allotment and Assignment Procedures,
Third Report and Order, 26 FCC Rcd 17642 (2011)

April, 2014

CERTIFICATION OF ENGINEERS

The firm of Munn-Reese, Inc., Broadcast Engineering Consultants, with offices at 385 Airport Drive, Coldwater, Michigan, has been retained for the purpose of preparing the technical data forming this report.

The data utilized in this report was taken from the FCC Secondary Database and data on file. While this information is believed accurate, errors or omissions in the database and file data are possible. This firm may not be held liable for damages as a result of such data errors or omissions.

The report has been prepared by properly trained electronics specialists under the direction of the undersigned whose qualifications are a matter of record before the Federal Communications Commission.

I declare under penalty of the laws of perjury that the contents of this report are true and accurate to the best of my knowledge and belief.


April 4, 2014

385 Airport Drive, PO Box 220
Coldwater, Michigan 49036

Telephone: 517-278-7339

MUNN-REESE, INC.

By


Wayne S. Reese, President

By


Justin W. Asher, Project Engineer

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036

ENGINEERING STATEMENT

This firm was retained to prepare this Engineering Statement in support of an Original Form 301-FM filing for a Petition for a Rulemaking for a New FM Station (NEW-293C1 – Baraga, MI) under the Section 307(b) Tribal Priority Reservation Preference. Pursuant to Policies to Promote Rural Radio Service and to Streamline Allotment and Assignment Procedures, *Third Report and Order*, 26 FCC Rcd 17642 (2011), the proposed NEW-293C1 – Baraga, MI facility may be reserved for use by the Keweenaw Bay Indian Community under the revised preference provisions of Section 307(b). Baraga, MI is located inside of the L'anse, MI, American Indian Reservation Land presently entrusted to the Keweenaw Bay Indian Community.

Class C1 operation for the NEW-293C1 – Baraga, MI facility is proposed from ASR #1037312. A correction of coordinates of approximately 10 seconds is requested for ASR #1037312 along with a physical increase and new construction in tower height from 403 feet AGL to 500 feet AGL. NEW-293C1 operating parameters of 100.0 kW ERP (H&V) at 438 meters AMSL are requested. As stated before, the new facility will serve the community of Baraga, MI.

The proposed site for the Class C1 operation meets all domestic and international spacing requirements of 47 C.F.R. §73.207 toward other stations in the allocation with the exception of ALLO293C – Thunder Bay, Ontario, Canada. International short-spaced processing toward ALLO293C has been requested. Full protection will be afforded ALLO293C as the calculated Interference Area will not reach Canadian Soil. A directional antenna pattern has been proposed.

The proposed parameters will result in a 70 dBμ F(50:50) (3.16 mV/m) contour covering 3,599 people or 98.8% of the total 3,644 people residing within the L'anse Tribal Reservation Land. The proposed parameters will also result in a 70 dBμ (3.16 mV/m) contour covering 191.92 km² or 79.4% of the total 241.86 km² land area (adjusted for water) of the L'anse Tribal Reservation Land.

The proposed service contour has been calculated in accordance with the Rules, and the data obtained has been tabulated and plotted in this report. The plotted contours are found in the attached map of this report. This exhibit shows the 70 dBμ F(50:50) (3.16 mV/m) contour which serves the L'anse Tribal Reservation Land. The plotted contour is based on the use of a full 360 terrain radials. The applicant would like to note the use of the NED 03 SEC terrain database for the calculations contained here-in. In addition, population and Tribal Reservation Land boundaries have been taken from 2010 U.S. Census data.

Section 307(b) Tribal Reservation Showing

AMERICAN INDIAN
RESERVATION LAND (Federal)

L'Anse Indian Reservation Land
Total Population: 3,594
Land Area: 241.88 km²

70 dBu Coverage of Reservation:
Population: 3,590 (99.6%)
Land Area: 191.82 km² (79.4%)
*Adjusted for Lake Superior

NEW-CH293C1.P
Baraga, MI
Proposed Rulemaking
Latitude: 47-06-03 N
Longitude: 088-33-55 W
ERP: 100.00 kW
Channel: 293C1
Frequency: 106.5 MHz
AMSL Height: 438.0 m
Horiz. Pattern: Directional

70 dBu Contour
Total Population: 45,582
Total Area: 5,032 sq. km

Proposed 70 dBu F(50:50)

NEW-CH293C1.P

ONTONAGON

L'ANSE

Terrain
180 600 m

NED 03 SEC Terrain Database
US Census 2010 PL Database



Scale 1:550,000
0 7 14 21 km

ATTACHMENT B

CONSTRUCTION PERMIT APPLICATION
FCC FILE NO. CDBS-2014 _____

CERTIFICATE OF SERVICE

I, Daniel Kirkpatrick, hereby certify that on this 6th day of May, 2014, I caused a copy of the foregoing "Petition for Rulemaking" to be served via hand delivery, upon the following:

Geoffrey Blackwell
Chief, Office of Native Affairs and Policy
Consumer & Governmental Affairs Bureau
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Daniel Kirkpatrick

**ENGINEERING REPORT
ORIGINAL CONSTRUCTION
PERMIT APPLICATION**

for

NEW-293C1 – Baraga, MI
CH293C1 (106.5 MHz)

Rulemaking (Form 301-FM) for a New FM Station for the
Community of Baraga, MI & Section 307(b) Tribal Priority
Reservation Preference for

The Keweenaw Bay Indian Community

as authorized under the

Policies to Promote Rural Radio Service and to
Streamline Allotment and Assignment Procedures,
Third Report and Order, 26 FCC Rcd 17642 (2011)

April, 2014

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MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036

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ALLO-293C – Thunder Bay, ON
- Exhibit 30.3 - Directional Antenna Pattern Study

RF Radiation Study Requirement

- Exhibit 35.1 - RF Radiation Study

(Exhibit Numbering is in response to FCC Online Form 301, Section III-B)

DISCUSSION OF REPORT

This firm was retained to prepare the required engineering report in support of this Original Form 301-FM filing for a Petition for a Rulemaking for a New FM Station (NEW-293C1 – Baraga, MI) under the Section 307(b) Tribal Priority Reservation Preference. Pursuant to Policies to Promote Rural Radio Service and to Streamline Allotment and Assignment Procedures, *Third Report and Order*, 26 FCC Rcd 17642 (2011), the proposed NEW-293C1 – Baraga, MI facility may be reserved for use by the Keweenaw Bay Indian Community under the revised preference provisions of Section 307(b). Baraga, MI is located inside of the L'anse, MI, American Indian Reservation Land presently entrusted to the Keweenaw Bay Indian Community.

Class C1 operation for the NEW-293C1 – Baraga, MI facility is proposed from ASR #1037312. A correction of coordinates of approximately 10 seconds is requested for ASR #1037312 along with a physical increase and new construction in tower height from 403 feet AGL to 500 feet AGL. NEW-293C1 operating parameters of 100.0 kW ERP (H&V) at 438 meters AMSL are requested. As stated before, the new facility will serve the community of Baraga, MI.

The applicant would further like to note that the proposed operational antenna is slated to be a fully spaced twelve (12) element Dielectric (SPX) DCR-M12BB antenna which will house the tri-plexed operations of WGLI(FM) – Hancock, MI (Facility ID No. 81328); WCUP(FM) – L'anse, MI (Facility ID No. 36092); and NEW-293C1 – Baraga, MI. Non-contingent Form 301-FM application filings for WGLI(FM) and WCUP(FM) will be filed upon a successful Tribal Priority Reservation of NEW-293C1 – Baraga, MI.

The proposed site for the Class C1 operation meets all domestic and international spacing requirements of 47 C.F.R. §73.207 toward other stations in the allocation with the exception of ALLO293C – Thunder Bay, Ontario, Canada. A tabulation of the existing and required spacing toward each of the other relevant stations is found in **Exhibit 30.1**. International short-spaced processing toward ALLO293C has been requested. Full protection will be afforded ALLO293C as the calculated Interference Area will not reach Canadian Soil as noted in **Exhibit 30.2**. A directional antenna will be employed to maintain this protection. A copy of the proposed directional antenna pattern has been included in **Exhibit 30.3**.

The proposed service contours have been calculated in accordance with the Rules, and the data obtained has been tabulated and plotted in this report. The plotted contours are found in **Exhibit 27.5** of this report. This exhibit shows the 3.16 mV/m contour which serves the community of license, and the overall service provided by the 1.0 mV/m contour of the facility. The plotted contours shown in **Exhibit 27.5**, are based on the use of a full 360 terrain radials. The applicant would like to note the use of the NED 03 SEC terrain database for all allocation, contour and HAAT calculations contained here-in.

As stated before, the antenna will be mounted on an existing tower bearing Antenna Structure Registration Number 1037312. Due to the increase the overall tower height and observed error in site coordinates, the FAA has been notified. Antenna Structure Registration will be corrected upon receipt of the revised FAA "Determination of No Hazard". A copy of USGS Aerial Photography and Topographic Mapping showing the existing site has been included in **Exhibit 27.1** and **27.2**. A vertical antenna plan depicting the placement of the antenna on the tower has been included in **Exhibit 27.3**.

DISCUSSION OF REPORT (continued)

The remainder of the information in this report and exhibit numbering is responsive to the Rules of the Commission, and provides the data for FCC Online Form 301, Section III-B.

RADIATION PROTECTION: The Commission requires an engineering study regarding compliance with the guidelines for human protection from radiofrequency radiation. This report section is in response to that provision of the Rules. The current Federal Communications Commission guidelines for RF radiation protection are set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01).

The FM Broadcast facility proposed in this application will not produce human exposure to radiofrequency radiation in excess of the applicable safety standards specified in §1.1310 of the Commission's rules. **Exhibit 35.1** provides the details of the study that was made to demonstrate compliance. The facility is properly marked with signs, and entry is restricted by means of fencing with locked doors and/or gates. Any other means as may be required to protect employees and the general public will be employed.

In the event work would be required in proximity to the antenna such that the person or persons working in the area would be potentially exposed to fields in excess of the guidelines set forth in OET Bulletin No. 65 (Edition 97-01), the transmitter power will be reduced or the station will cease operation during the critical period.

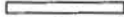
DISTANCES TO CONTOURS: The table below shows the distances to the 3.16 mV/m and 1.0 mV/m contours from the proposed facility using an ERP of 100.0 kW at an HAAT of 176 meters. These distances have been calculated based on the FCC F(50-50) curves.

N. Lat. = 470603 W. Lng. = 883355							
HAAT and Distance to Contour,							
FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC							
Azi.	AV EL	HAAT	ERP kW	dBk	Field	70-F5	60-F5
000	296.5	141.5	100.0000	20.00	1.000	37.23	57.31
045	283.4	154.6	100.0000	20.00	1.000	38.79	59.06
090	207.6	230.4	100.0000	20.00	1.000	45.30	66.60
135	193.5	244.5	100.0000	20.00	1.000	46.26	67.79
180	264.0	174.0	100.0000	20.00	1.000	40.91	61.31
225	343.3	94.7	100.0000	20.00	1.000	30.98	49.84
270	289.8	148.2	100.0000	20.00	1.000	38.04	58.24
315	221.4	216.6	52.5625	17.21	0.725	39.02	59.26
Ave El= 262.43 M HAAT= 175.57 M AMSL= 438 M							

**Exhibit 27.1 - USGS Aerial
Photograph of Existing Site**

**ASR #1037312 Site
(Pending Modification)
47° 06' 03" NL
88° 33' 55" WL
NAD 1927
(47-06-03.06 NL; 88-33-55.46 WL NAD 1983)**


MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339


0 50 100ft

Scale 1:2,257

Exhibit 27.2 - USGS Topographic Map of Existing Site

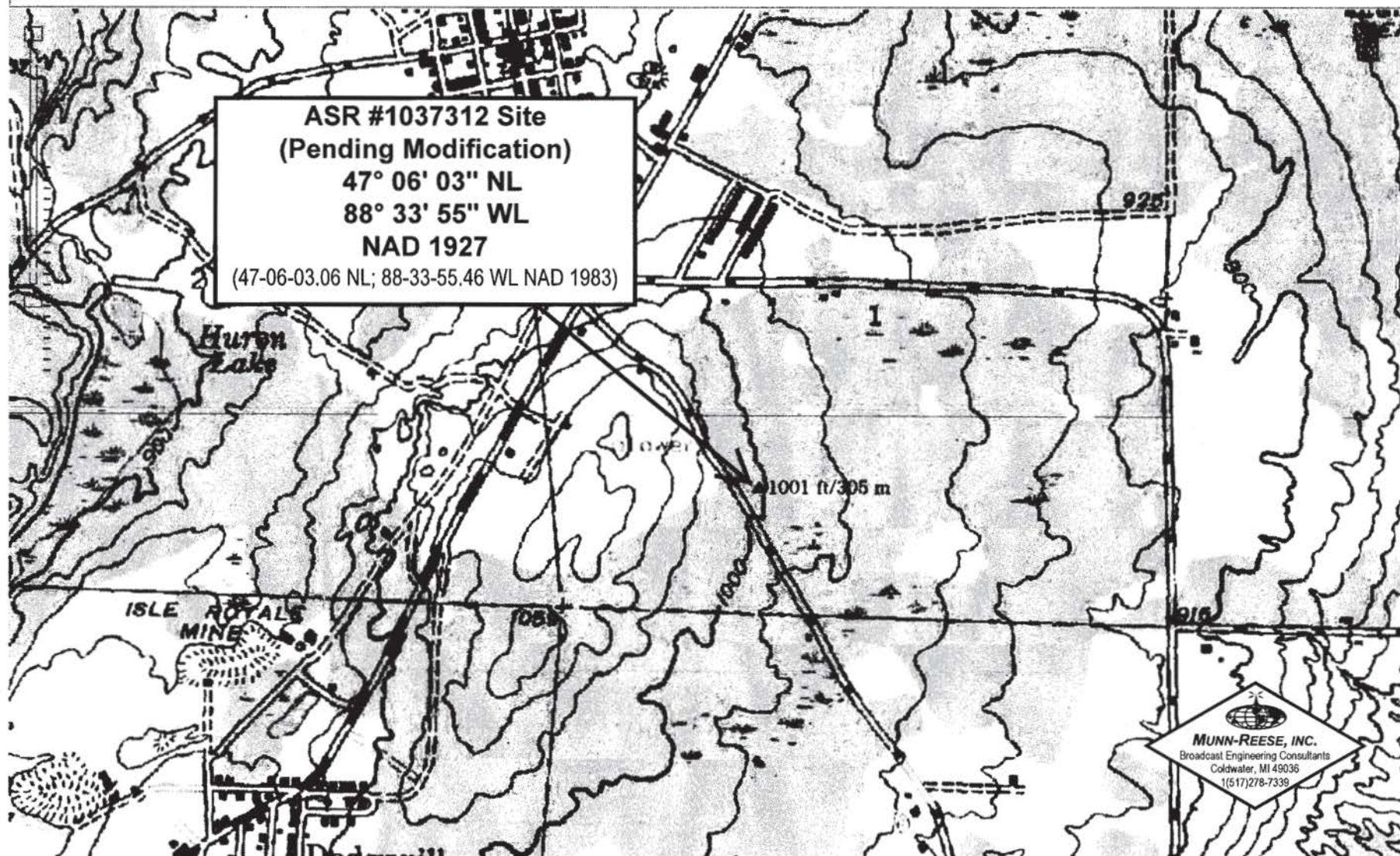


Exhibit 27.3

Vertical Plan of Antenna System

The site is located on Highway P100, 0.32 km south of the city of Houghton, Houghton County, Michigan.

Site Location (NAD 27)

NL: 47° 06' 03"

WL: 88° 33' 55"

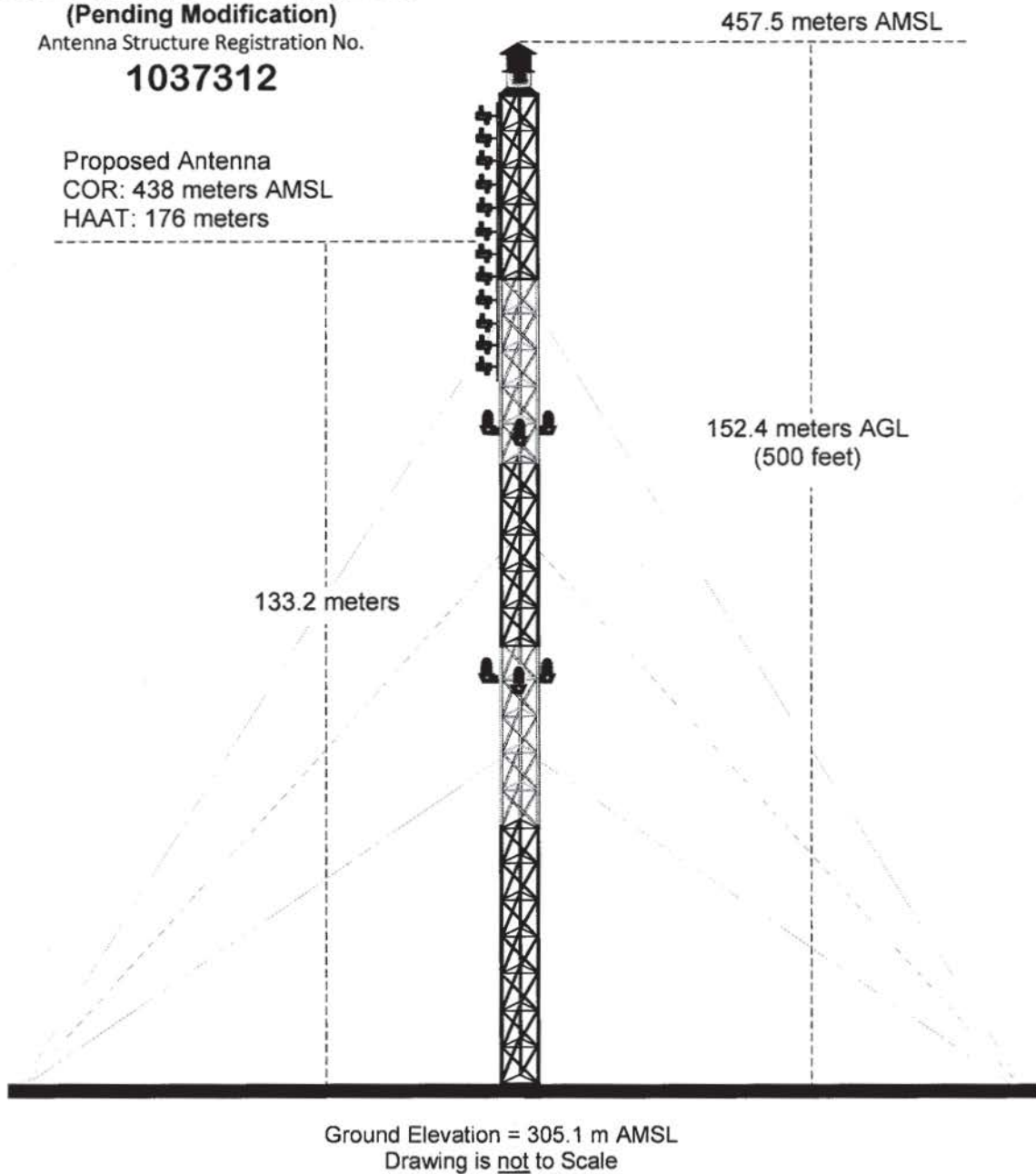
(47-06-03.06NL; 88-33-55.46WL NAD1983)

NOTE: Existing Tower Construction (Pending Modification)

Antenna Structure Registration No.

1037312

Proposed Antenna
COR: 438 meters AMSL
HAAT: 176 meters



MUNN-REESE, INC.

Broadcast Engineering Consultants
Coldwater, MI 49036

EXHIBIT 27.4

PROPOSED FM OPERATING SPECIFICATIONS

Applicant: Keweenaw Bay Indian Community

Call: NEW-293C1

City of License: Baraga, MI

Frequency: 106.5 MHz **Channel:** 293C1 **ERP:** 100.0 kW **HAAT:** 176 M

Transmitter Location: The site is located on Highway P100,
0.32 km south of the city of Houghton, MI.

City: Houghton

County: Houghton

State: Michigan

Site Coordinates: NL: 47° 06' 03" / WL: 88° 33' 55"

Tower Registration Number: 1037312 (pending modification)

Proposed Operation: Class C1

Effective Radiated Power: 100.0 kW (H) 100.0 kW (V)

Height of Antenna Radiation Center Above:

	<u>Average Terrain</u>	<u>Mean Sea Level</u>	<u>Ground</u>
Horizontal	176 meters	438 meters	133 meters
Vertical	176 meters	438 meters	133 Meters

Elevation of Tower Site : 305.1 Meters AMSL

Overall Height of Structure Above Ground : 152.4 Meters AGL

Overall Height of Structure Above Mean Sea Level: 457.5 Meters AMSL

NEW-293C1.P
Baraga, MI
Proposed Rulemaking
Latitude: 47-06-03 N
Longitude: 088-33-55 W
ERP: 100.00 kW
Channel: 293C1
Frequency: 106.5 MHz
AMSL Height: 438.0 m
Horiz. Pattern: Directional

70 dBμ Contour
Total Population: 46,582
Total Area: 5,032 sq. km

60 dBμ Contour
Total Population: 46,887
Total Area: 11,412 sq. km

Exhibit 27.5 Proposed Service Contour Study

